Wolf-Tilo Balke

List of Publications by Year in Descending Order

117 papers	**818** citations	**14** h-index	**22** g-index
134 ext. papers	**950** ext. citations	**1.3** avg, IF	**4.37** L-index

#	Paper	IF	Citations
117	Narrative Query Graphs for Entity-Interaction-Aware Document Retrieval. *Lecture Notes in Computer Science*, **2021**, 80-95	0.9	1
116	Do Embeddings Actually Capture Knowledge Graph Semantics?. *Lecture Notes in Computer Science*, **2021**, 143-159	0.9	6
115	Suitability of Graph Database Technology for the Analysis of Spatio-Temporal Data. *Future Internet*, **2020**, 12, 78	3.3	1
114	Mining Semantic Subspaces to Express Discipline-Specific Similarities **2020**,		1
113	Context-Compatible Information Fusion for Scientific Knowledge Graphs. *Lecture Notes in Computer Science*, **2020**, 33-47	0.9	4
112	KnowlyBERT - Hybrid Query Answering over Language Models and Knowledge Graphs. *Lecture Notes in Computer Science*, **2020**, 294-310	0.9	1
111	Modeling Narrative Structures in Logical Overlays on Top of Knowledge Repositories. *Lecture Notes in Computer Science*, **2020**, 250-260	0.9	4
110	Detecting Synonymous Properties by Shared Data-Driven Definitions. *Lecture Notes in Computer Science*, **2020**, 360-375	0.9	
109	Explainable Word-Embeddings for Medical Digital Libraries - A Context-Aware Approach **2020**,		1
108	Semantic Disambiguation of Embedded Drug-Disease Associations Using Semantically Enriched Deep-Learning Approaches. *Lecture Notes in Computer Science*, **2020**, 489-504	0.9	2
107	Pattern recognition in time series for space missions: A rosetta magnetic field case study. *Acta Astronautica*, **2020**, 168, 123-129	2.9	2
106	Exploiting Latent Semantic Subspaces to Derive Associations for Specific Pharmaceutical Semantics. *Data Science and Engineering*, **2020**, 5, 333-345	3.6	7
105	Assessing plausibility of scientific claims to support high-quality content in digital collections. *International Journal on Digital Libraries*, **2020**, 21, 47-60	1.4	2
104	Fast Dual Simulation Processing of Graph Database Queries **2019**,		3
103	**2019**,		1
102	Do Scaling Algorithms Preserve Word2Vec Semantics? A Case Study for Medical Entities. *Lecture Notes in Computer Science*, **2019**, 3-16	0.9	
101	Can Language Inference Support Metadata Generation?. *Lecture Notes in Computer Science*, **2019**, 253-264	0.9	

100	Learning to Rank Claim-Evidence Pairs to Assist Scientific-Based Argumentation. *Lecture Notes in Computer Science*, **2019**, 41-55	0.9	
99	Linking Semantic Fingerprints of Literature From Simple Neural Embeddings Towards Contextualized Pharmaceutical Networks. *Lecture Notes in Computer Science*, **2019**, 33-40	0.9	
98	Knowledge Graph Consolidation by Unifying Synonymous Relationships. *Lecture Notes in Computer Science*, **2019**, 276-292	0.9	2
97	PubPharm Gemeinsam von der informationswissenschaftlichen Grundlagenforschung zum nachhaltigen Service. *ABI Technik, Zeitschrift F Automation, Bau Und Technik Im Archiv-, Bibliotheks- Und Informationswesen*, **2019**, 39, 282-294	0.1	1
96	Using Queries as Schema-Templates for Graph Databases. *Datenbank-Spektrum*, **2018**, 18, 89-98	0.6	2
95	Towards Semantic Quality Enhancement of User Generated Content. *Lecture Notes in Computer Science*, **2018**, 28-40	0.9	1
94	Scientific Claims Characterization for Claim-Based Analysis in Digital Libraries. *Lecture Notes in Computer Science*, **2018**, 257-269	0.9	2
93	Measuring the Semantic World How to Map Meaning to High-Dimensional Entity Clusters in PubMed?. *Lecture Notes in Computer Science*, **2018**, 15-27	0.9	4
92	A Fair Share of the Work? **2018**,		3
91	Can Plausibility Help to Support High Quality Content in Digital Libraries?. *Lecture Notes in Computer Science*, **2017**, 169-180	0.9	5
90	Querying Graph Databases: What Do Graph Patterns Mean?. *Lecture Notes in Computer Science*, **2017**, 134-148	0.9	5
89	Semantic Facettation in Pharmaceutical Collections Using Deep Learning for Active Substance Contextualization. *Lecture Notes in Computer Science*, **2017**, 41-53	0.9	5
88	Offering Answers for Claim-Based Queries: A New Challenge for Digital Libraries. *Lecture Notes in Computer Science*, **2017**, 3-13	0.9	2
87	Result Set Diversification in Digital Libraries Through the Use of Paper Claims. *Lecture Notes in Computer Science*, **2017**, 225-236	0.9	2
86	Towards an Impact-Driven Quality Control Model for Imbalanced Crowdsourcing Tasks. *Lecture Notes in Computer Science*, **2016**, 124-139	0.9	1
85	What does Twitter Measure? **2015**,		8
84	Demystifying the Semantics of Relevant Objects in Scholarly Collections **2015**,		3
83	Avoiding Chinese Whispers **2015**,		5

82	Multidimensional gene search with Genehopper. *Nucleic Acids Research*, **2015**, 43, W98-103	20.1	10
81	Crowdsourcing for Query Processing onWeb Data: A Case Study on the Skyline Operator. *Journal of Computing and Information Technology*, **2015**, 23, 43	0.4	4
80	Retaining Rough Diamonds: Towards a Fairer Elimination of Low-Skilled Workers. *Lecture Notes in Computer Science*, **2015**, 169-185	0.9	4
79	Realizing Impact Sourcing by Adaptive Gold Questions: A Socially Responsible Measure for WorkersTrustworthiness. *Lecture Notes in Computer Science*, **2015**, 17-29	0.9	2
78	Towards Narrative Information Systems. *Lecture Notes in Computer Science*, **2015**, 511-515	0.9	1
77	A Majority of Wrongs Doesn Make It Right - On Crowdsourcing Quality for Skewed Domain Tasks. *Lecture Notes in Computer Science*, **2015**, 293-308	0.9	3
76	A Chip Off the Old Block - Extracting Typical Attributes for Entities Based on Family Resemblance. *Lecture Notes in Computer Science*, **2015**, 493-509	0.9	1
75	Any Suggestions? Active Schema Support for Structuring Web Information. *Lecture Notes in Computer Science*, **2014**, 251-265	0.9	2
74	Querying concepts in product data by means of query expansion. *Web Intelligence and Agent Systems*, **2014**, 12, 1-14		
73	Putting Instance Matching to the Test: Is Instance Matching Ready for Reliable Data Linking?. *Lecture Notes in Computer Science*, **2014**, 274-284	0.9	6
72	TopCrowd. *Lecture Notes in Computer Science*, **2014**, 122-135	0.9	2
71	Skill Ontology-Based Model for Quality Assurance in Crowdsourcing. *Lecture Notes in Computer Science*, **2014**, 376-387	0.9	11
70	ProSWIP: Property-Based Data Access for Semantic Web Interactive Programming. *Lecture Notes in Computer Science*, **2013**, 184-199	0.9	4
69	Skyline queries in crowd-enabled databases **2013**,		40
68	Bridging the Gap Using External Knowledge Bases for Context-Aware Document Retrieval. *Lecture Notes in Computer Science*, **2013**, 11-20	0.9	2
67	On Skyline Queries and How to Choose from Pareto Sets. *Intelligent Systems Reference Library*, **2013**, 15-36	0.8	5
66	Context-Sensitive Ranking Using Cross-Domain Knowledge for Chemical Digital Libraries. *Lecture Notes in Computer Science*, **2013**, 285-296	0.9	3
65	Skyline Queries over Incomplete Data - Error Models for Focused Crowd-Sourcing. *Lecture Notes in Computer Science*, **2013**, 298-312	0.9	14

#	Publication	IF	Citations
64	Time-Based Exploratory Search in Scientific Literature. *Lecture Notes in Computer Science*, **2013**, 374-377	0.9	
63	Large-Scale Experiments for Mathematical Document Classification. *Lecture Notes in Computer Science*, **2013**, 83-92	0.9	3
62	Interactive skyline queries. *Information Sciences*, **2012**, 211, 18-35	7.7	14
61	Conceptual views for entity-centric search: turning data into meaningful concepts. *Computer Science - Research and Development*, **2012**, 27, 65-79		4
60	Discussion of 즶Spatial-Symbolic Query Engine in Anatomy즶 *Methods of Information in Medicine*, **2012**, 51, 479-488	1.5	1
59	Introduction to Information Extraction: Basic Notions and Current Trends. *Datenbank-Spektrum*, **2012**, 12, 81-88	0.6	6
58	Information Extraction Meets Crowdsourcing: A Promising Couple. *Datenbank-Spektrum*, **2012**, 12, 109-120	0.6	18
57	Pushing the boundaries of crowd-enabled databases with query-driven schema expansion. *Proceedings of the VLDB Endowment*, **2012**, 5, 538-549	3.1	24
56	Catching the Drift 즶Indexing Implicit Knowledge in Chemical Digital Libraries. *Lecture Notes in Computer Science*, **2012**, 383-395	0.9	1
55	Malleability-Aware Skyline Computation on Linked Open Data. *Lecture Notes in Computer Science*, **2012**, 33-47	0.9	1
54	Equivalence Heuristics for Malleability-Aware Skylines. *Journal of Computing Science and Engineering*, **2012**, 6, 207-218	1.8	
53	SkyMap: A Trie-Based Index Structure for High-Performance Skyline Query Processing. *Lecture Notes in Computer Science*, **2011**, 350-365	0.9	3
52	A Service Oriented Architecture for Personalized Universal Media Access. *Future Internet*, **2011**, 3, 87-116	3.3	1
51	Turning Experience Products into Search Products: Making User Feedback Count **2011**,		1
50	Will I Like It? Providing Product Overviews Based on Opinion Excerpts **2011**,		11
49	Taking chemistry to the task **2011**,		3
48	Mobile Product Browsing Using Bayesian Retrieval **2010**,		2
47	Exposing the hidden web for chemical digital libraries **2010**,		5

46	Using Wikipedia categories for compact representations of chemical documents **2010**,		5
45	Highly Scalable Web Service Composition Using Binary Tree-Based Parallelization **2010**,		25
44	Datenbankgruppen vorgestellt Das Institut f Informationssysteme (IFIS) an der TU Braunschweig. *Datenbank-Spektrum*, **2010**, 10, 49-50	0.6	
43	Efficient computation of trade-off skylines **2010**,		8
42	Highly Scalable Multiprocessing Algorithms for Preference-Based Database Retrieval. *Lecture Notes in Computer Science*, **2010**, 246-260	0.9	11
41	Uncovering Hidden Qualities Benefits of Quality Measures for Automatically Generated Metadata. *Lecture Notes in Computer Science*, **2010**, 30-37	0.9	
40	Building an efficient preference XML query processor **2009**,		2
39	Distributed Management of Concurrent Web Service Transactions. *IEEE Transactions on Services Computing*, **2009**, 2, 289-302	4.8	10
38	Efficient evaluation of preference query processes using twig caches **2009**,		3
37	A Service Oriented Architecture for Personalized Rich Media Delivery **2009**,		6
36	**2009**,		6
35	Relaxing XML Preference Queries for Cooperative Retrieval. *Lecture Notes in Business Information Processing*, **2009**, 160-171	0.6	4
34	Using Semantic Technologies in Digital Libraries A Roadmap to Quality Evaluation. *Lecture Notes in Computer Science*, **2009**, 168-179	0.9	2
33	Multimedia Content Provisioning Using Service Oriented Architectures **2008**,		7
32	Efficiently performing consistency checks for multi-dimensional preference trade-offs **2008**,		2
31	Automatically created concept graphs using descriptive keywords in the medical domain. *Methods of Information in Medicine*, **2008**, 47, 241-50	1.5	6
30	Order-preserving optimization of twig queries with structural preferences **2008**,		5
29	Exploiting Preferences for Minimal Credential Disclosure in Policy-Driven Trust Negotiations. *Lecture Notes in Computer Science*, **2008**, 99-118	0.9	6

28	Optimal Preference Elicitation for Skyline Queries over Categorical Domains. *Lecture Notes in Computer Science*, **2008**, 610-624	0.9	5
27	Restricting skyline sizes using weak Pareto dominance. *Computer Science - Research and Development*, **2007**, 21, 165-178		7
26	Preference-driven personalization for flexible digital item adaptation. *Multimedia Systems*, **2007**, 13, 119-130	2.2	8
25	Demonstrating the semantic growbag **2007**,		20
24	Query relaxation using malleable schemas **2007**,		32
23	DHTs over Peer Clusters for Distributed Information Retrieval. *International Conference on Advanced Networking and Applications*, **2007**,		3
22	Nonblocking Scheduling for Web Service Transactions **2007**,		4
21	Eliciting Matters Controlling Skyline Sizes by Incremental Integration of User Preferences **2007**, 551-562		12
20	The Semantic GrowBag Algorithm: Automatically Deriving Categorization Systems. *Lecture Notes in Computer Science*, **2007**, 1-13	0.9	14
19	A Quality- and Cost-based Selection Model for Multimedia Service Composition in Mobile Environments **2006**,		9
18	Exploiting Indifference for Customization of Partial Order Skylines. *Database Engineering and Application Symposium (IDEAS), Proceedings of the International*, **2006**,		17
17	Personalized Digital Item Adaptation in Service-Oriented Environments **2006**,		3
16	Approaching the Efficient Frontier: Cooperative Database Retrieval Using High-Dimensional Skylines. *Lecture Notes in Computer Science*, **2005**, 410-421	0.9	10
15	Towards building large scale multimedia systems and applications **2005**,		16
14	20. Supporting Information Retrieval in Peer-to-Peer Systems. *Lecture Notes in Computer Science*, **2005**, 337-352	0.9	2
13	DL Meets P2P Distributed Document Retrieval Based on Classification and Content. *Lecture Notes in Computer Science*, **2005**, 379-390	0.9	14
12	Searching Dynamic Communities with Personal Indexes. *Lecture Notes in Computer Science*, **2005**, 491-505	0.9	13
11	Knowledge Representation and the Embodied Mind: Towards a Philosophy and Technology of Personalized Informatics. *Lecture Notes in Computer Science*, **2005**, 586-597	0.9	4

10	A taxonomy for multimedia service composition **2004**,		20
9	Through different eyes **2004**,		8
8	Preference-based session management for IP-based mobile multimedia signaling. *European Transactions on Telecommunications*, **2004**, 15, 415-427		6
7	Efficient Distributed Skylining for Web Information Systems. *Lecture Notes in Computer Science*, **2004**, 256-273	0.9	131
6	P-News: Deeply Personalized News Dissemination for MPEG-7 Based Digital Libraries. *Lecture Notes in Computer Science*, **2004**, 256-268	0.9	11
5	Top-k Query Evaluation for Schema-Based Peer-to-Peer Networks. *Lecture Notes in Computer Science*, **2004**, 137-151	0.9	11
4	Multi-objective Query Processing for Database Systems **2004**, 936-947		18
3	Progressive Content Delivery for Mobile E-services. *Lecture Notes in Computer Science*, **2002**, 225-235	0.9	2
2	On Real-Time Top k Querying for Mobile Services. *Lecture Notes in Computer Science*, **2002**, 125-143	0.9	6
1	MPEG-7/21: Structured Metadata for Handling and Personalizing Multimedia Content363-387		2